

Claims

- [c1] 1. An outsole for walking on sand comprising longitudinal ridges defining gaps therebetween, a continuous outer edge around the sole adapted to contain sand while walking, and a sharp forward heel edge, wherein each ridge and gap has a cross sectional area, and each cross sectional area increases from a minimum at the outer edge to a maximum at the center of the outsole.
- [c2] 2. The outsole of claim 1, wherein the continuous outer ridge has cuts perpendicular to the direction of shoe travel in the material to facilitate bending.
- [c3] 3. The outsole of claim 1, wherein each longitudinal ridge has a side closest to the longitudinal centerline of the sole, and a side opposite the closest side, the side closest to the longitudinal centerline being beveled between 15 and 75 degrees.
- [c4] 4. The outsole of claim 1, wherein each longitudinal ridge has a side closest to the longitudinal centerline of the sole, and a side opposite the closest side, the side

closest to the longitudinal centerline being beveled about 45 degrees.

- [c5] 5. The outsole of claim 1, wherein each longitudinal ridge has a side closest to the longitudinal centerline of the sole, and a side opposite the closest side, the side opposite the closest side being beveled between two and five degrees.
- [c6] 6. An outsole for walking on sand comprising longitudinal ridges defining gaps therebetween, a continuous outer edge around the sole adapted to contain sand while walking, and a sharp forward heel edge, wherein the ridges and outer edge are aligned to form a substantially flat walking surface, and the bottoms of the gaps, taken by themselves, approximate a concave shape.
- [c7] 7. The outsole of claim 6 wherein the gaps closest to the outside edge of the sole are about 0.10 inches deep.
- [c8] 8. The outsole of claim 7 wherein the gaps that are the next closest to the outside edge are about 0.20 inches deep.
- [c9] 9. The outsole of claim 8 wherein the gaps that are the closest to the longitudinal centerline are about 0.30

inches deep.

[c10] 10. An outsole for walking on sand comprising longitudinal ridges defining gaps therebetween, a continuous outer edge around the sole adapted to contain sand while walking, and a sharp forward heel edge, wherein the ridges and outer edge are aligned to form a substantially flat walking surface, and the gaps nearest the outside edge of the sole are the shallowest gaps, and the gaps nearest the longitudinal centerline are the deepest gaps to approximate a substantially concave surface.

[c11] 11. An outsole for walking on sand comprising longitudinal ridges defining gaps therebetween, and a continuous outer edge around the sole adapted to contain sand while walking, wherein each ridge and gap has a cross sectional area, and each cross sectional area increases from a minimum at the outer edge to a maximum at the center of the outsole.

[c12] 12. The outsole of claim 11, wherein the continuous outer ridge has cuts perpendicular to the direction of shoe travel in the material to facilitate bending.

- [c13] 13. The outsole of claim 11, wherein each longitudinal ridge has a side closest to the longitudinal centerline of the sole, and a side opposite the closest side, the side closest to the longitudinal centerline being beveled between 15 and 75 degrees.
- [c14] 14. The outsole of claim 11, wherein each longitudinal ridge has a side closest to the longitudinal centerline of the sole, and a side opposite the closest side, the side closest to the longitudinal centerline being beveled about 45 degrees.
- [c15] 15. The outsole of claim 11, wherein each longitudinal ridge has a side closest to the longitudinal centerline of the sole, and a side opposite the closest side, the side opposite the closest side being beveled between two and five degrees.
- [c16] 16. An outsole for walking on sand comprising longitudinal ridges defining gaps therebetween, and a continuous outer edge around the sole adapted to contain sand while walking, wherein the ridges and outer edge are aligned to form a substantially flat walking surface, and the bottoms of the gaps, taken by themselves, approximate a concave shape.

[c17] 17. The outsole of claim 16 wherein the gaps closest to the outside edge of the sole are about 0.10 inches deep.

[c18] 18. The outsole of claim 7 wherein the gaps that are the next closest to the outside edge are about 0.20 inches deep.

[c19] 19. The outsole of claim 18 wherein the gaps that are the closest to the longitudinal centerline are about 0.30 inches deep.

[c20] 20. An outsole for walking on sand comprising longitudinal ridges defining gaps therebetween, a continuous outer edge around the sole adapted to contain sand while walking, and a sharp forward heel edge, wherein the ridges and outer edge are aligned to form a substantially flat walking surface, and the gaps nearest the outside edge of the sole are the shallowest gaps, and the gaps nearest the longitudinal centerline are the deepest gaps to approximate a substantially concave surface.